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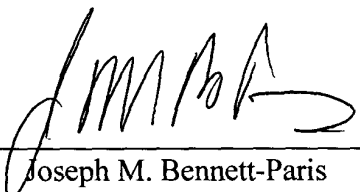
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U.S.S.N. 09/880,710
06572.105018 ANA 1006 US
Page 3

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: **Manolagas *et al.***

Serial No.: **09/880,710**

Art Unit:

Filed: **June 13, 2001**

Examiner:

For: **METHODS OF DISSOCIATING NONGENOTROPIC FROM GENOTROPIC ACTIVITY
OF STEROID RECEPTORS**

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INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

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Sir:

Pursuant to the duty of disclosure under 37 CFR §§ 1.56, 1.97 and 1.98, Applicants cite the publications listed on the accompanying PTO-1449. Copies of all listed references are enclosed. This Information Disclosure Statement is filed without fee as it is filed before a first official action on the merits. Applicants also list the following U.S. patent applications which are co-pending within the U.S. Patent and Trademark Office.

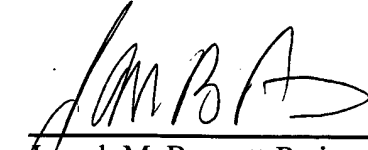
SERIAL NUMBER	APPLICATION TITLE	FILING DATE	INVENTORS
09/413,958	In Vitro and In Vivo Models for Screening Compounds to Prevent Glucocorticoid-Induced Bone Destruction	10/07/99	Manolagas <i>et al.</i>
09/413,785	Methods for Screening for Apoptosis-Controlling Agents for Bone Anabolic Therapies and Uses Thereof	10/07/99	Manolagas <i>et al.</i>
09/443,841	Increasing Bone Strength with Selected Bisphosphonates	11/19/99	Manolagas <i>et al.</i>
09/414,091	Methods and Compositions for Increasing Bone Mass	10/07/99	Manolagas <i>et al.</i>

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06572.105018 ANA 1006 US
Page 2

Respectfully submitted,



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/880,710
				Filing Date	June 13, 2001
				First Named Inventor	Manolagas <i>et al.</i>
				Group Art Unit	
				Attorney Docket Number	ANA 1007 (06572.105018)
Sheet	1	of	12		

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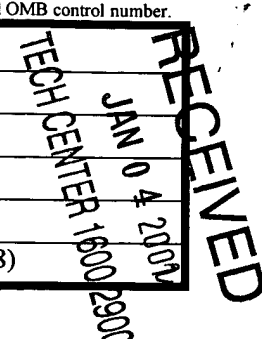
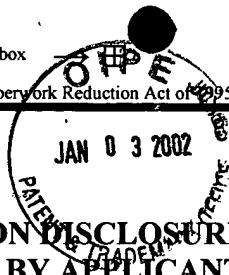
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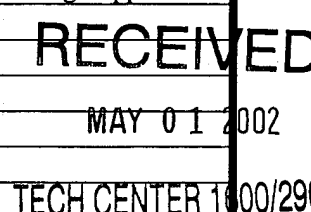
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT					
Sheet	2	of	12		



U.S. PATENT DOCUMENTS							
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FOREIGN PATENT DOCUMENTS								
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		Office ³	Number	Kind Code ² (if known)				
	BA	WO	98/22113	A1	28/05/1998	PCT		
	BB	WO	98/31381	A1	23/07/1998	PCT		
	BC	WO	99/54728	A3	28/10/1999	PCT		
	BD	WO	99/61044	A1	02/12/1999	PCT		
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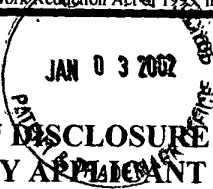
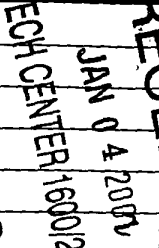
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		<i>Complete if Known</i>			
		Application Number	09/880,710		
		Filing Date	June 13, 2001		
		First Named Inventor	Manolagas <i>et al.</i>		
		Group Art Unit			
Sheet	3	of	12	Attorney Docket Number	ANA 1007 (06572.105018)

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	CA	ARONICA, S.M., <i>et al.</i> , "Estrogen Action Via The cAMP Signaling Pathway: Stimulation of Adenylate Cyclase and cAMP-regulated Gene Transcription," <u>Proc. Natl. Acad. Sci. U.S.A.</u> , (1994), Vol. 91, pp. 8517-8521.	
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	CC	BELLIDO, T.G., <i>et al.</i> , "Demonstration of Estrogen and Vitamin D Receptors in Bone Marrow-Derived Stromal Cells: Up-Regulation of the Estrogen Receptor by 1,25-Dihydroxyvitamin-D ₃ ," <u>Endocrinology</u> , (1993), Vol. 133, pp. 553-562.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	09/880,710		
		Filing Date	June 13, 2001		
		First Named Inventor	Manolagas <i>et al.</i>		
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	DA	CARANI, C., <i>et al.</i> , "Effect of Testosterone and Estradiol in a Man with Aromatase Deficiency," <i>N. Engl. J. Med.</i> , (1997), Vol. 337, pp. 91-95.	
	DB	CASTORIA, G., <i>et al.</i> , "Non-Transcriptional Action of Oestradiol and Progestin Triggers DNA Synthesis," <i>EMBO J.</i> , (1999), Vol. 18, pp. 2500-2510.	
	DC	CHAMBLISS, <i>et al.</i> , "Estrogen Receptor α and Endothelial Nitric Oxide Synthase Are Organized Into a Functional Signaling Module in Caveolae," <i>Circ. Res.</i> , (2000), Vol. 87, pp. E44-E52.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT					
Sheet	5	of	12		

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	EA	ERIKSEN, E.F., et al., "Evidence of Estrogen Receptors in Normal Human Osteoblast-Like Cells," <u>Science</u> , (1988), Vol. 241, pp. 84-86.	
	EB	ERNST, M., et al., "Functional Estrogen Receptors in Osteoblastic Cells Demonstrated by Transfection with a Reporter Gene Containing an Estrogen Response Element," <u>Mol. Endocrinol.</u> , (1991), Vol. 5, pp. 1597-1606.	
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	ED	FRISCH, S.M. and RUOSLAHTI, E., "Integrins and anoikis," <u>Curr. Opin. Cell Biol.</u> , (1997), Vol. 9, pp. 701-706.	
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	EF	GOSSEN, M., et al., "Transcriptional Activation by Tetracyclines in Mammalian Cells," <u>Science</u> , (1995), Vol. 268, pp. 1766-1769.	
	EG	GOSSEN, M., et al., "Control of Gene activity in Higher Eukaryotic Cells by Prokaryotic Regulatory Elements," <u>Trends Biochem Sci</u> , (1993), Vol. 18, pp. 471-475.	
	EH	GU, H., et al., "Deletion of a DNA Polymerase β Gene Segment in T Cells Using Cell Type-Specific Gene Targeting," <u>Cell</u> , (1993), Vol. 73, pp. 1155-1164.	
	EI	GU, H., et al., "Deletion of a DNA Polymerase β Gene Segment in T Cells Using Cell Type-Specific Gene Targeting," <u>Science</u> , (1994), Vol. 265, pp. 103-106.	
	EJ	HUGHES, D.E. et al., "Estrogen Promotes Apoptosis of Murine Osteoclasts Mediated by TGF- β ," <u>Nat. Med.</u> , (1996), Vol. 2, pp. 1132-1136.	
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Sheet	6	of	12		

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	FA	JILKA, R.L., <i>et al.</i> , "Increased Bone Formation by Prevention of Osteoblast Apoptosis with Parathyroid Hormone," <i>J. Clin. Invest.</i> , (1999), Vol. 104, pp. 439-446.	
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	FD	KATZENELLENBOGEN B.S., <i>et al.</i> , "Stilbestrols and Stilbestrol Derivatives: Estrogenic potency and Temporal Relationships Between Estrogen Receptor Binding and Uterine Growth," <i>Mol. Cell Endocrinol.</i> , (1978), Vol. 10, pp. 103-113.	
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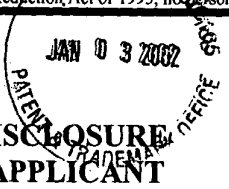
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		Filing Date		June 13, 2001	
		First Named Inventor		Manolagas <i>et al.</i>	
		Group Art Unit			
Sheet	7	of	12	Attorney Docket Number	ANA 1007 (06572.105018)

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
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	GA	LEA, C.K. and A.M. FLANAGAN, "Ovarian androgens protect against bone loss in rats made oestrogen deficient by treatment with ICI 182,780," <i>J. Endocrinol.</i> , (1999), Vol. 160, 111-117.
	GB	LECKA-CZERNIK, B., <i>et al.</i> , "," <i>J. Cell Biochem.</i> , (1999), Vol. 74, pp. 357-371.
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	HA	MONAGHAN, B.A., et al., "BASIC SCIENCE AND PATHOLOGY - Estrogen Receptors in Fracture Healing," <u>Clin. Orthop.</u> , (1992), pp. 277-280.	
	HB	MONTANO, M.M. and KATZENELLENBOGEN, B.S., "The Quinone Reductase Gene: A Unique Estrogen Receptor-Regulated Gene That is Activated by Antiestrogens," <u>Proc. Natl. Acad. Sci. U.S.A.</u> , (1997), Vol. 94, pp. 2581-2586.	
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	IA	ORBAN, P.C., et al., "Tissue- and site-specific DNA recombination in transgenic Mice," <u>Proc. Natl. Acad. Sci. U.S.A.</u> , (1992), Vol. 89, pp. 6861-6865.	
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	IE	PIETRAS, R.J. and C.M. SZEGO, "Cell membrane estrogen receptors resurface," <u>Nat. Med.</u> , (1999), Vol. 5, p. 1330.	
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	KD	VANDERSCHUEREN, D., <i>et al.</i> , "Bone and Mineral Metabolism in the Androgen-Resistant (Testicular Feminized) Male Rat," <i>J. Bone Miner. Res.</i> , (1993), Vol. 8, pp. 801-809.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/880,710
				Filing Date	June 13, 2001
				First Named Inventor	Manolagas <i>et al.</i>
				Group Art Unit	
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	LA	YEH, S. <i>et al.</i> , "From Estrogen to Androgen Receptor: A New Pathway for Sex Hormones in Prostate," <i>Pro. Natl. Acad. Sci. U.S.A.</i> , (1998), Vol. 95, pp. 5527-5532.	
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